Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

10th RA Bill

Head of Account: P3158

Division: EE Byatrayanapura Div Sub division: AEE Byatrayanapura Div

Bill Received No. ..... Date..... Cash Book Voucher No..... dated..... Indent No 25347

Scheduled Docted No.

Name of Work (as per sanctioned estimate): **Improvements to Roads,drains,footpath and park in ward no.08,Bytarayanapura Division (Package includes 11 Works of Rs 1010 lakhs)**

Name of Contractor and Full Address: **Sri.Pramodh M/s Karthik Enterprises, No. 123, Aiswaraya, 3rd Cross, Ramannaa Garden, Vidyaranyapura, Bangalore - 97**

Reference to Work order No. **BBMP/EE/BTP/WO/2072017-18** dt: 21/11/17

Certified that the measurement were taken by me on 8-10-21 and recorded of pages: 501544-364 To MB 5014/19-20

Contractor : Officer-In-Charge of work

Certified that the measurements were taken by me on 8/10/21 are found correct and the work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account II have been actually brought to site of the work and the

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Sub Division Officer

II Memorandum of Payment

1) Total value of work done or supplies made as per account within	93903637	00
2) Deduct amount to be held in reserve being.....percent Rs.....		
3) Deduct amount to be held in Balance		
4) Deduct Payments:		
a) Amount of previous payment as in the office Cash Book Voucher No.....Dated .....S.D No..... (Previous TJB)	74703637	00
Amount adjusted towards cash advance recovery of (10th & part)	19200000	00
b) Payments cost store or other materials supplied (I+)	192000	00
Now made recovery of amount creditable to this/other work (CESS+)	171429	00
Amount paid on this bill Cheque/Cash (SGST+)	171429	00
5) Balance being unpaid value of work done held in reserve (CESS)	192000	00
6) Deduct cash advance made on the Office Cash Book Voucher No.:..... dated..... less adjustments (CBF)	19200	00
7) Net amount due to or from contractor (LR)	163942	00
Unadjusted items (Ded)	910000	00
8) Advance to contractor for materials brought to site (as detailed) with Value of Government materials supplied (Cheque)	18290000	00

P3158

Contractor's Signature

Received **Rs.**

by cash and by adjustment of Payment as per memorandum.

Witnesses:

1

2

Stamp

Dated..... Signature of Contractor

STP - Infrastructure Project Works
192000/- ರಷ್ಟು ಪಾವತಿ ಮಾಡಿದೆ (TDS in the CESS)
910000/- ರಷ್ಟು ಹಿಂದಾಣಿಕೆ
18290000/- ರಷ್ಟು

RTGS/NEFT/RTGS ಮುಖಾಂತರ ನಿರ್ವಾಹಕರು
ವಿಷಯ
ಲೆಕ್ಕಾಧಿಕಾರಿಗಳು 6/10/21
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ. ಬೆಂಗಳೂರು
ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ
ಬೃ.ಬೆ.ಮ.ಪಾ. ಬೆಂಗಳೂರು
Executive Engineer
26/10

Paid by me by cheque No.....dated.....

Cast Rs.....dated.....

Initials of Officer making payment

BRUHAT BANGALORE MAHANAGARA PALIKE

BYATARAYANAPURA DIVISION

Improvements to Roads,drains,footpath and park in ward no.08,Bytarayanapura Division (Package includes 11 Works of Rs 1010 lakhs)

1 Improvements to Road,Drain and Footpath in Kodigehalli Main Road and Abutting Cross Roads in Ward No.8, Kodigehalli.

Bill No : 10th Part Bill

BOQ Sl.No	Description of work	Unit	Modified BOQ Qnty	Rate	Previous bill		Present bill		Total claimed up to this bill		Remarks
					Qnty	Amount	Qnty	Amount	Qnty	Amount	
1	KSRRB M200-13.1. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete as per specifications. II. By mechanical means, A. Cement concrete Grade M-15 & M-20 (P.No.137, I.No.18.20 of PW,P&IWTD SR 2016-17)	Cum	206.58	488.86	0.00	0.00	0.00	0.00	0.00	0.00	
	Up to 125%	Cum	92.00	488.86	73.60	35,980.00	18.40	8,995.00	92.00	44975.00	
	Above 125%	Cum	114.58	478.42			114.58	54,817.00	114.58	54817.00	
2	Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)	Sq-m	7,388.91	84.48	7388.49	6,24,180.00	0.00	0.00	7388.49	624180.00	
3	Removing and Resetting of Footpath Slab (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)	Sq-m	2,233.95	138.94	2231.25	3,10,010.00	0.00	0.00	2231.25	310010.00	
4	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)	Cum	9,609.49	202.30	7966.28	16,11,578.00	1534.29	3,10,387.00	9500.57	1921965.00	
5	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)	Cum	938.80	5608.71	807.59	45,29,512.00	99.70	559188.00 5,59,179.00	.29 907.28	5085700 5088691.00	
6	Providing laying plain/ reinforced cement concrete M20 Grade for Box Drain walls of thickness 10cm to 20cm including centering shuttering for work etc. complete as per approved drawing and design MORTH specification No. 1500, 1700, 2200. (P.No.265, I.No.37.59.2 of PW, P&IWTD SR 2016-17)	Cum	1,374.77	11568.66	1262.65	1,46,07,137.00	111.89	12,94,417.00 12,94,360.00	.54 1374.53	15901554 15901497.00	
7	KSRB 4-6.1: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.15, I.No.4.28 of PW, P&IWTD SR 2016-17)	Sq-m	180.33	256.76	0.00	0.00	0.00	0.00	0.00	0.00	
	Up to 125%	Sq-m	95.69	256.76	67.65	17,370.00	28.04	7,200.00	95.69	24570.00	
	Above 125%	Sq-m	84.64	251.28	0.00	0.00	84.64	21,268.00	84.64	21268.00	
8	KSRB 4-6.4: Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surfaces such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.15, I.No.4.31 of PW,P&IWTD SR 2016-17)	Sq-m	561.85	325.67	387.40	1,26,165.00	167.25	54,468.00	554.65	180633.00	

BOQ Sl.No	Description of work	Unit	Modified BOQ Qnty	Rate	Previous bill		Present bill		Total claimed up to this bill		Remarks
					Qnty	Amount	Qnty	Amount	Qnty	Amount	
9	Providing and laying cement concrete using 20mm and downsize granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for RCC works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, with all lead and lifts etc., complete (exclusive of cpost of steel and fabricaton charges) Ready Mixed Cement Concrete M 20 for Raft foundation, Column, Footing, main and secondary beams. (P.No.18, I.No.4.48 of PW, P&IWTD SR 2016-17)	Cum	171.56	6534.60	125.28	8,18,638.00	45.54	297586.00 2,97,561.00	170.82	1116224 1116199.00	
10	KSRB - 4.9.2: Providing TMT steel Fe500 reinforcement for R.C.C work including straightening, cutting, bending, hooking, palcing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work	Tonne	77.25	62300.47	64.62	40,25,895.00	12.48	7,77,510.00	77.10	4803405.00	
11	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 10cms thick (P.No.25, I.No.5.31.2 of PW, P&IWTD SR 2016-17)	Sq-m	2,240.28	867.87	2238.32	19,42,571.00	0.00	0.00	2238.32	1942571.00	
12	KSRB 5-9 : Providing chamfering edges to stone slab 2.5 cms. wide as per specifications, (only chamfered length shall be recorded) KBS 5.1.13 (P.No.24, I.No.5.22 of PW,P&IWTD SR 2016-17)	Sq-m	10,036.00	38.90	10029.00	3,90,128.00	0.00	0.00	10029.00	390128.00	
13	Providing One line dressing to granite stone slab/ granite stone masonry as per speciication (P.No.23, I.No.5.17 of PW,P&IWTD SR 2016-17)	Sq-m	2,264.64	605.78	2263.05	13,70,910.00	0.00	0.00	2263.05	1370910.00	
14	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13. (P.No.23, I.No.5.6 of PW, P&IWTD S.R 2016-17)	Cum	212.76	4653.92	131.78	6,13,297.00	80.98 81.00	376874.00 3,76,968.00	76 212.78	990171.00 990265.00	
15	KSRB 5-11 : Providing and constructing load bearing wall with solid concrete blocks of size 400x150x200 mm having block density not lessthan 1800 kg/m3 and having a minimum average compressive strength 4.00 N/mm2 confirming to IS 2185 (Part) : 2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials, labour charegs, scaffolding, curing complete as per specifications. KBS No.5.4(P.No.24, I.No.5.26.2 of PW, P&IWTD SR 2016-17)	Sq-m	760.80	1008.15	0.00	0.00	0.00	0.00	0.00	0.00	
	Up to 125%	Sq-m	730.00	1008.15	528.94	5,33,251.00	201.06	2,02,699.00	730.00	735950.00	
	Above 125%	Sq-m	30.80	986.61		0.00	29.98	29,579.00	29.98	29579.00	
16	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.113, I.No.15.1 of PW, P&IWTD S.R 2016-17)	Sq-m	260.02	107.82	260.07	28,041.00	0.00	0.00	260.07	28041.00	

BOQ Sl.No	Description of work	Unit	Modified BOQ Qnty	Rate	Previous bill		Present bill		Total claimed up to this bill		Remarks
					Qnty	Amount	Qnty	Amount	Qnty	Amount	
17	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.6 of PW,P&IWTD S.R 2016-17)	Cum	158.37	6047.76	0.00	0.00	0.00	0.00 234048-	0.00 .55	0.00	
	Up to 125%	Cum	155.89	6047.76	76.85	4,64,756.00	38.70	2,34,022.00	115.54	698778.00	
	Above 125%	Cum	2.48	5918.57		0.00			0.00	0.00	
18	KSRRB M400-19: Construction of Median and island above road level with approved material deposited from borrowpits, spread, sloped and compacted as per Clause 400.7 complete as per specifications. MORTH Specification No.407 (P.No154 of I.No.20.20 in PW,P&IWTD SR 2014-15)	cum	106.43	218.97	38.58	8,448.00	67.67	14,818.00	106.25	23266.00	
19	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25mm thick conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mis finished with flush pointing using white cement, including cost of materials, including cutting, griding the edge to half/full round wherever required, labour, curing complete as per specification.(P.No.109, I.No.14.62 of PW,P&IWTD S.R 2016-17))	Sq-m	842.10	1205.99	844.82	10,18,844.00	0.00	0.00	844.82	1018844.00	
20	Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	Sq-m	3,209.75	1780.52	2928.22	52,13,754.00	281.27	500807.00 5,00,798.00	3209.49	5714561 5714552.00	
21	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate)	Cu-m	576.75	4995.53	479.40	23,94,857.00	97.35	4,86,315.00	576.75	2881172.00	
22	Providing and fixing Pre cast solid concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete (P.No.25, I.No.5.30 of PW,P&IWTD S.R 2016-17)	No	7,414.00	347.90	6278.00	2184117.00 21,84,116.00	1135.00	3,94,867.00	7413.00	2578983.00	
23	Removing and Resetting of Kerb Stones (P.No.258, I.No.37.57 of PW,P&IWTD S.R 2015-16)	Rmtr	311.00	68.91	311.00	21,431.00	0.00	0.00	311.00	21431.00	
24	KSRRB 800-1. Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. MORTH Chapter 8 (P.No.179, I.No. 24.1 of PW,P&IWTD SR 2015-16)	Sq-m	752.28	66.69	601.76	40,131.00	0.00	0.00	601.76	40131.00	

BOQ Sl.No	Description of work	Unit	Modified BOQ Qnty	Rate	Previous bill		Present bill		Total claimed up to this bill		Remarks
					Qnty	Amount	Qnty	Amount	Qnty	Amount	
25	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)	Cu-m	5610.87 5,602.24	162.28	0.00	0.00	0.00	0.00	0.00	0.00	
	Up to 125%	Cum	2,987.04	162.28	2401.96	3,89,791.00	585.08	94,946.00	2987.04	484737.00	
	Above 125%	Cum	2,615.20	158.81		0.00	2376.67	3,77,451.00	2376.67	377451.00	
26	KSRRB M 400-17, Providing, laying, spreading and compacting graded stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechaniqal mix plant carriage ' of mixed Material by tipper to site, laying in uniform layers with paver in sub- base/ base course on well prepared surface and compacting with vibratory roller to achieve the desired density.complete as per specifications. MORTH Specification No. 406 (P.No.158, I.No.20.18 of PW,P&IWTD SR 2016-17)	Cu-m	2623.83 3,761.31 3765.28	1854.01	0.00	0.00	0.00	377439.00 0.00	0.00	0.00	
	Up to 125%	Cum	1,719.20	1854.01	1780.25	33,00,608.00	0.00	0.00	1780.25	3300608.00	
	Above 125%	Cum	2,042.11	1814.40		0.00	1628.84	29,55,380.00	1628.84	2955380.00	
27	KSRRB M 500-6, Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kglsqm using mechanical means complete as per specif	Sq-m	2046.08 16,117.71 16134.90	28.90	0.00	0.00	1567.29 0.00	2841314.00 0.00	1567.29 0.00	2841314.00 0.00	
	Up to 125%	Sq-m	6,888.05	28.90	7052.11	2,03,806.00	0.00	0.00	7052.11	203806.00	
	Above 125%	Sq-m	9,229.66	28.28	0.00	0.00	0.00		0.00	0.00	
28	KSRRB 500-2: Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatement including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH Spec, Chapter 5 (P.No.161, I.No.21.2 of PW,P&IWTD SR 2016-17)	Sq-m	9246.96 39,540.71 39547.77	3.33	34586.72	1,15,174.00	1826.41	6,082.00	36413.13	121256.00	
29	KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW,P&IWTD SR of 2016-17)	Sq-m	82536.56 82,502.02	12.23	60852.19	7,44,222.00	0.00	0.00	60852.19	744222.00	
30	KSRRB M500-16. Providing and laying dense bituminous macadam 50-75mm compacted thickness with 4.5% VG-30 Bitumen using 40/60 TPH capacity H.M.P, using crushed aggregates of grading II, premixed with VG 30 grade bituminous binder and transporting the hot mix to work site, laying with mechanical paver to the required grade level and alignment rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10, complete in all respects complete as per specification MORTH specification No. 507 (P.No.163 I.No. 21.17.6 of PW,P&IWTD S.R 2016-17)	Cum	1352.41 1,351.55	6748.01	963.54	65,01,994.00	0.00	0.00	963.54	6501994.00	

BOQ Sl.No	Description of work	Unit	Modified BOQ Qnty	Rate	Previous bill		Present bill		Total claimed up to this bill		Remarks
					Qnty	Amount	Qnty	Amount	Qnty	Amount	
31	KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17)	Cum	2,227.20 .89	7623.89	1668.54	1,27,20,775.00	0.00	0.00	1668.54	12720775.00	
32	KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17)	Sq-m	1,602.77	569.10	1214.79	6,91,338.00	0.00	0.00	1214.79	691338.00	
33	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 ReaffirmecF2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M20 (at 300Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.43cum) ((P.No.177, I.No.22.6.2 of PW,P&IWTD SR 2016-17)	Cum	305.65 .28	5776.55	0.00	0.00	0.00	0.00 306966.00	0.00	0.00	
	Up to 125%	Cum	200.25	5776.55	147.11	8,49,770.00	53.14	3,06,984.00	200.25	1156754.00	
	Above 125%	Cum	105.40	5653.15			105.40	5,95,836.00	105.40	595836.00	
34	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.177, I.No.22.7 of PW, P&IWTD SR 2016-17)	Sqm	932.58	100.04	934.36	93,473.00	0.00	595842 0.00	934.36	595842 93473.00	
35	Providing groove cutting to concrete pavement for width of 5mm to 10mm and depth 80mm - 100mm including cost of cutting machine, generator & HOM of machinery, including cost of blade, coolant, etc., including cleaning of grove & providing sand and hot bitumen fillars, and filler metal etc., including cost of conveyance of all amterials, labour, lead and lift charges and all other incidental charges as per drawing and as per specifications.(P.No.178, I.No.22.8.1 of PW, P&IWTD SR 2016-17)	Sq-m	30.86	127.82	30.85	3,943.00	0.00	0.00	30.85	3943.00	
36	Providing and fixing M S Grating	Sq-m	15.79	6970.04	15.79	1,10,040.00	0.00	0.00	15.79	110040.00	

BOQ Sl.No	Description of work	Unit	Modified BOQ Qnty	Rate	Previous bill		Present bill		Total claimed up to this bill		Remarks
					Qnty	Amount	Qnty	Amount	Qnty	Amount	
37	KSRRB M2600-5.(iv) Providing and filling joint sealing compound as per drawings and technical specifications with coarse sand and 6 per cent bitumen by weight complete as per specifications MORTH Specification No. 2605(P.No.243, I.No.31.5 of PW,P&IWTD S.R 2016-17)	Mtr	822.00	25.56	822.00	21,010.00	0.00	0.00	822.00	21010.00	
38	Providing Rain Water Harvesting Pits for Drains	No	2.00	22020.60	0.00	0.00	2.00	44,041.00	2.00	44041.00	
39	KSRRB M800-35. Supply and Installation of Moulded Shank Raised Pavement Markers made of polycarbonate and ABS(Acrylonitrile Butadiene Styrene) moulded body and reflective panels with micro prismatic lens capable of providing total internal reflection of the light entering the lens face and shall support a load of 16000kg tested in accordance to specification of category A of MORTH Circular No RW/NH/33023/10-97-Do III Dt 11.06.1997. The Height, width and length shall no exceed 50mm, 100mm, and 102mm and with minimum reflective area of 13 Sqcm on each side and the slope to the base shall be 35 degree. The strength of detachment of the integrated cylindrical shanks, (of diameter not less than 19mm and height not less than 30 mm) from the body is to be a minimum vakue of 500 kg. Fixing will be by drilling holes on the road for the shanks to go inside, without nails and using epoxy resin based adhesive as per manufacturer's recommendation and complete as directed by the engineer with 2 years warranty for the reflectivity from the original manufacturer is mandatory along with necessary test certification from the certified laboratory. Third party test certificates from a reputed test laboratory shall be submitted with seal and signature in originals. (P.No.189, I.No.24.41 of PW,P&IWTD SR 2016-17)	Nos	2,147.00	376.80	2147.00	8,08,990.00	0.00	0.00	2147.00	808990.00	
40	Manufacturing, Supply & Fixing of Retro- Reflection Road name sign board single Arrow size 1.98X0.9m size made out if wide angle cube corner micro prismatic grade sheeting confirming to IRC 67:2010 & type XI standards of ASTM D 4956-09 specifications and fixed over 2mm thick aluminium sheet back support frame of stainless stell supported by 30NB 1.2mm thick stainless steel pipe all around and 65NB 1.5mm thick pipe vertical post (AISI 202 Grade) firmly fixed to the ground by means of properly designed foundation with M15 grade cement concrete 30cmx30cmx45cm etc.complete. The information message shal be made out of cut out letters in blue colour transparent overlay film as per IRC 67-2010 Guidelines, 7 years pre-qualification warranty for retro reflective sheeting from the original sheeting manufacturer and a certied copy of three years outdoor exposure report from an independent test lab for the product offered shall be submitted by the contractor. The sign board shall be Retro-Reflective Type XL	Nos	16.00	29622.95	16.00	4,73,967.00	0.00	0.00	16.00	473967.00	
41	KSRRB M300-59.1. Loosening of the ground upto a level of 500mm below the subgrade level, watered, graded and compacted in layers to meet requirement of Table 300-2 for subgrade construction complete as per specifications. Case-I:Compacting original ground supporting subgrade.(which includes watering charges & compaction by vibratory roller) MORTH Specification No. 305.3.4	cum	127.50	57.80	126.38	7,304.00	0.00	0.00	126.38	7304.00	
42	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. MORTH / Chapter 3	Sq-m	1029.46 10,271.05	5.56	0.00	0.00	0.00	0.00	0.00	0.00	

BOQ Sl.No	Description of work	Unit	Modified BOQ Qnty	Rate	Previous bill		Present bill		Total claimed up to this bill		Remarks
					Qnty	Amount	Qnty	Amount	Qnty	Amount	
	Up to 125%	Sq-m	5,250.00	5.56	421.25	2,342.00	4828.75	26,848.00	5250.00	29190.00	
	Above 125%	Sq-m	5,021.05	5.44			3053.13	16,606.00	3053.13	16606.00	
43	KSRRB 500-3. Scarifying existing stone metal layer upto 75mm thick along with their bituminous surface, picking up scarified materials and stacking of old serviceable materials with lead of 100 m. sequential spreading of the salvaged aggregates with fresh aggregates on prepared base and consolidating as per water bound macadam specifications including cost of all labour, HOM of machineries complete as per specifications. MORTH specification clause 501	sqm	5041.46 1,968.00	96.70	0.00	0.00	0.00	1660900 0.00	0.00	16609.00 0.00	
	Up to 125%	sqm	406.25	96.70	0.00	0.00	0.00	0.00	0.00	0.00	
	Above 125%	sqm	1,561.75	94.64	0.00	0.00	0.00	0.00	0.00	0.00	
44	KSRRB M300- Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-53. Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH Specification No. 305	Cum	1512.49 1,509.82	335.68	0.00	0.00	1509.31	5,06,646.00	1509.31	506646.00	
45	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)	sqm	464.40	698.03	463.32	3,23,411.00	0.00	0.00	463.32	323411.00	
46	Providing and Making Precast Seating Arrengment including Excavation Laying PCC M15, Providing Laying M20 Concrete for Pedestal and Seating slab, fixing of seating slab including all necessary bolts and nuts etc, complete and as per dirction of engineer in charge (Data Rate)	Each	0.00	2614.16	0.00	0.00	0.00	0.00	0.00	0.00	Item Not Operated
47	Earth work for lowering and levelling the ground other than foundation works by mechanical means upto 3.00 depth, including providing shoring and strutting, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavation earth to the extent required including the cost of labour & HOM of machineries, as per drawing and technical specification.	Cum	90.00	75.58	90.99	6,877.00	0.00	0.00	90.99	6877.00	
48	KSRRB M200-29. Dismantling of barbed wire fencing / wire mesh fencing including posts, foundation concrete, back filling of pit by manual means including disposal of dismantled material with all lifts and stacking serviceable material and unserviceable material separately complete as per specifications. MORTH Specification No. 202	Sq-m	360.00	46.68	0.00	0.00	0.00	0.00	0.00	0.00	
	Up to 125%	Sq-m	50.00	46.68	0.00	0.00	50.00	2,334.00	50.00	2334.00	
	Above 125%	Sq-m	310.00	45.69		0.00	310.00	14,163.00	310.00	14163.00	
49	Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting (excluding cost of earthwork and concrete)	Rmtr	0.00	910.33	0.00	0.00	0.00	0.00	0.00	0.00	Item Not Operated

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50	Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint	Sq-m	537.50	732.49	0.00	0.00	0.00	0.00	0.00	0.00	
	Up to 125%	Sq-m	105.00	732.49	0.00	0.00	105.00	76,911.00	105.00	76911.00	
	Above 125%	Sq-m	432.50	716.84		0.00	432.50	3,10,034.00	432.50	310034.00	
51	Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint.	Rmtr	0.00	360.13	0.00	0.00	0.00	0.00	0.00	0.00	Item Not Operated
52	Providing and fixing M.S. Gate as per Chief Architect Drawing, using 50mm x 50mm 14 guage M.S. hollow pipe frame work bent to ornamental shape as shown in the drawing and 35mm x 6mm and 16 x 16mm Square rods for verticals alternatively spaced at 4cms c/c in two halves and 40mmx6mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternate vertical members asshown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per specifiocation.	sqm	0.00	3395.68	0.00	0.00	0.00	0.00	0.00	0.00	Item Not Operated
53	KSRRB M800-7. Painting:-Providing and applying two coats of ready mix paint of approved brand after through cleaning of surface to give an even shade complete as per specifications. MORTH Specification No. 803 - Painting on Steel Surface	sqm	0.00	61.13	0.00	0.00	0.00	0.00	0.00	0.00	Item Not Operated
54	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum	41.25	5871.03	40.69	2,38,892.00	0.00	0.00	40.69	238892.00	
55	KSRRB 2100.-2.2: Earthwork in excavation for foundations of structures as per drawings and techincal specifications including, setting out , construction of shoring & bracing , removal of stumps and other deleterious matter , dressing of sides and bottom and backfilling with approved material complete as per specifications .B. Machanical means (i) Depth - 3.0 Mtr to 6.0 m dep	cum	735.37	167.15	735.31	1,22,907.00	0.00	0.00	735.31	122907.00	

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56	KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications, specification. No. KBS (P.No.6, I.No.2.15 of PW,P&IWTD S.R 2016-17))	Cum	26.25	2394.08	26.25	62,845.00	0.00	0.00	26.25	62845.00	
57	KSRRB M2100-13. Plain / Reinforced Cement Concrete M15 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum in Open Foundation complete as per Drawing and Technical Specifications MORTH Specification No. 1500,1700 & 2100.(P.No.218, I.No.27.24 of PW,P&IWTD S.R 2016-17)	cum	35.88	6648.84	35.88	2,38,527.00	0.00	0.00	35.88	238527.00	
58	Diversion of water course by providing Coffer dams or bunds or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc., complete.(1.50 mtrs depth below LWL.)(P.No.264, I.No.37.41.1 of PW,P&IWTD S.R 2016-17)	cum	78.75	303.51	78.75	23,901.00	0.00	0.00	78.75	23901.00	
59	Diversion of water course by providing Coffer dams or bunds or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc., complete. - - beyond 1.50 mtrs depth upto & including 3m depth.	cum	0.00	373.72	0.00	0.00	0.00	0.00	0.00	0.00	**Item Not Operated**
60	KSRRB M800-43. Installation of a steel portable barricade with horizontal rail 300 mm wide, 2.5 m in length fitted on a 'A' frame made with 45 x 45 x 5 mm angle iron section, 1.5 m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150 mm in width at an angle of 45°, 'A' frame painted with 2 coats of yellow paint, complete as per IRC:SP:55-2001 complete as per specifications.(P.No.190, Item no 24.44 of PW,P&IWTD S.R 2016-17))	sqm	20.00	2686.26	20.00	53,725.00	0.00	0.00	20.00	53725.00	
61	KSRRB M2100-20.2. Plain / Reinforced Cement Concrete in Open Foundation with OPC cement design mix M35 @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @0.68cum and fine aggregates @ 0.45cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008. case II : With Batching Plant, Transit Mixer and Concrete Pump MORTH Specification No. 1500,1700 & 2100(P.No.220, I.No.27.37 of PW,P&IWTD S.R 2016-17)	cum	20.48	7305.68	20.48	1,49,584.00	0.00	0.00	20.48	149584.00	
62	KSRRB M2200-5.19. Design mix M35 with OPC cement @ 390kgs,with 20mm and down size graded granite metal coarse aggregates @0.68cum and fine aggregates @ 0.45cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 - ii) For height, upto 5m,(P.No.224, I.No.28.7.18 of PW,P&IWTD S.R S.R 2016-17)	cum	18.11	8229.79	18.11	1,49,062.00	0.00	0.00	18.11	149062.00	
63	KSRRB M2300-8.1. Furnishing and Placing Reinforced/ Prestressed cement concrete in super-structure as per drawing and Technical Specification complete as per specifications. D. RCC / PSC with OPC cement design mix M35 @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @0.68cum and fine aggregates @ 0.45cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008, Case - II : Using Batching Plant, Transit Mixer & Concrete Pump MORTH Specification No. 1500,1600 & 1700-Height upto 5 m(P.No.233 , I.No.29.16.1 of PW,P&IWTD S.R S.R 2016-17)	cum	36.54	8324.92	36.54	3,04,151.00	0.00	0.00	36.54	304151.00	

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					Qnty	Amount	Qnty	Amount	Qnty	Amount	
64	KSRRB M2200 -6 Supplying , fitting and placingTMT bar Fe 550 reinforcement in sub-structure complete as per drawing & technical specification complete as per the specification . MORTH Specification No.1600 & 2200(P.No.225 , I.No.28.8.3 of PW,P&IWTD S.R 2016-17)	Mt	12.26	62834.96	12.22	7,67,821.00	0.00	0.00	12.22	767821.00	
65	KSRRB M2300 -14. supplying , fitting and placing TMT bar Fe 550 reinforcement in super-structure complete as per as per drawing & technical specification complete as per the specification . MORTH Specification No.1600.(P.No.238 , I.No.29.29.3 of PW,P&IWTD S.R 2016-17))	Mt	2.29	63844.01	2.29	1,45,960.00	0.00	0.00	2.29	145960.00	
66	KSSRB M220 - 8. Providing weep holes in Brick masnory / Plain / Reinforced concrete abutment, wing wall / return wall with 100mm dia AC pipe, extending through the full width of the structure with slope of 1V:20H towards drawing foce. Complete as per drawing and Technical specifications complete as per specifications. MORTH Specification No. 2706 & 2200 (P.No.225, I.No.28.10 of PW,P&IWTD S.R 2016-17))	cum	52.50	190.26	52.50	9,989.00	0.00	0.00	52.50	9989.00	
67	KSRRB M2700-4. Providing, fitting and fixing mild steel railing complete as per drawing and Technical Specification complete as per specifications MORTH Specification No. 2703.2, 1900	sqm	0.00	3292.14	0.00	0.00	0.00	0.00	0.00	0.00	Item Not Operated
68	KSRRB M2700-5. Drainage Spouts complete as per drawing and Technical specification complete as per specifications MORTH Specification No. 2705	cum	0.00	1862.94	0.00	0.00	0.00	0.00	0.00	0.00	Item Not Operated
69	KSRRB 2200-9 Filter Media Providing & laying of Filter media With Granular meterails / Stone crushed aggregates satisfying the requirement laid down in clause 2500.4.2.2 of MORTH Specification to a thickness on not less than 600 mm width smaller size towards the soil & bigger size towards wall & provided over the entire surface behind Abutment, Wing wall & return wall to the full height compacted to a firm condition complete as per Drawing & Techincal Specifications. Complete as per specification MORTH Specification No. 710.14of IRC: 78& 2200(P.No.225, I.No.28.13 of PW,P&IWTD 2016-17))	cum	34.65	1467.70	34.65	50,856.00	0.00	0.00	34.65	50856.00	
70	KSRRB 2200-8.1 Back filling behind Abutment, Wing wall & return wall to the full height compacted to a firm condition complete as per Drawing & Techincal Specifications. Complete as per specification A. Granular Material MORTH Specification No. 710.14of IRC: 78& 2200.With all Leads & Lift etc & as per the direction of the Engineer Incharge of the Work.(P.No.225, I.No.28.11 of PW,P&IWTD S.R 2016-17))	Cum	86.63	593.42	86.63	51,405.00	0.00	0.00	86.63	51405.00	
71	KSRRB M2500- Flexible Apron KSRRB M2500-11. Construction of flexible apron 1 m thick comprising of loose stone boulders weighing not less than 40 kg beyond curtain wall complete as per specifications MORTH Specification No. 2507.2	Cum	0.00	1634.18	0.00	0.00	0.00	0.00	0.00	0.00	Item Not Operated
72	KSRRB M2500-5.1. Providing and laying Flooring complete as per drawing and Technical specifications laid over cement concrete bedding complete as per specifications. A. Rubble stone laid in cement mortar 1:3 MORTH Specification No. 2505	Cum	0.00	5165.28	0.00	0.00	0.00	0.00	0.00	0.00	Item Not Operated
73	KSRRB M2500-10.Curtain wall complete as per drawing and Technical Specifications. B. Cement Concrete Grade M-15 MORTH Specification No. 2507.2	Cum	0.00	5903.66	0.00	0.00	0.00	0.00	0.00	0.00	Item Not Operated

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74	KSRRB M200-15.2. Dismantling of existing structures like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete as per specifications. iii) Dismantling Stone Masonry B. Rubble Stone maonry in cement mortar (P.No.138, I.No.18.27 of PW,P&IWTD SR 2016-17)	Cum	47.25	376.59	47.25	17,794.00	0.00	0.00	47.25	17794.00	
75	KSRRB M400-6.2. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vi	Cum	0.00	1746.19	0.00	0.00	0.00	0.00	0.00	0.00	Item Not Operated
76	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)	Sq-m	0.00	698.03	0.00	0.00	0.00	0.00	0.00	0.00	Item Not Operated
77	Add cost of Waste Plastic @ 8% of Bitumen Weight	Kgs	25130.56 25,122.77	28.31	10701.65	3,02,964.00	0.00	0.00	10701.65	302964.00	
	Extra Items										
EIRL-1	Removing and refixing of existing chainlink fencing.	m	1,139.50	235.00	0.00	0.00	1139.50	2,67,783.00	1139.50	267783.00	
EIRL-2	Removing and refixing of existing poles.	m	654.00	210.00	0.00	0.00	654.00	1,37,340.00	654.00	137340.00	
EIRL-3	KSRRB M300- Wrought iron and mild steel welded work KSRRB M300-18. Wrought iron and mild steel welded work (using angles, square bars, tees and channel grills, grating frames, gates and tree guards of any size and design etc. including cost of screens and welding rods or bolts and nuts complete fixed in position but without the cost of excavation and concrete for fixing which will be paid separately complete as per specifications.(P.No.150 I.No.19.97 of PW,P&IWTD SR of 2018-19)	Quintal	645.00 35.80	8755.96	0.00	0.00	645.00 35.80	135450.00 3,13,454.00 313463.00	645 35.80	313454.00 313463.00	
EIRL-4	KSRRB M800-Portable barricade in construction zone KSRRB M800-43. Installation of a steel portable barricade with horizontal rail 300 mm wide, 2.5 m in length fitted on a 'A' frame made with 45 x 45 x 5 mm angle iron section, 1.5 m in height, horizontal rail painted (2 coats) with yellow and white stripes, 150 mm in width at an angle of 45°, 'A' frame painted with 2 coats of yellow paint, complete as per IRC:SP:55-2001 complete as per specifications. Item No 24.44 PWD SR 18-19.	Each	740.00 751.00	3033.58	0.00	0.00	740.00 751.00	2244849.00 22,78,217.00	740.00 751.00	2244849.00 2278217.00	
EIRL-5	KSRRB 300-6. Excavation soft rock without blasting for formation of roads including stacking neatly, to uniform line and level including cost of explosives, labour, HOM of machineries and equipments complete as per specifications. (with all lead and lift) MORTH / Chapter 3. PWD SR 2018-19. Item No 19.6	Cum	369.00	1532.63	0.00	0.00	369.00	565540.00 5,65,539.00	369.00	565540.00 565539.00	
EIRL-6	KSRB15-3.5 : Providing 15mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.(P.No. 112, I.No. 15.13 of PWD SR 2018-19	Sq-m	411.60	269.25	0.00	0.00	411.60	110823.00 1,10,821.00	411.60	110823.00 110821.00	

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EIRL-7	KSRB 15-16.1 : Providing and finishing external walls in two coats with waterproof cement paint of approved brand and shade to give an even shade after throughly brooming the surface to remove all dirt and loose powdered material, free from mortar drops and other foreign matter cost of materials, labour, complete as per specifications. - with primer. Page No. 117 / Item No. 15.53.2, SR 2018-19	Sq-m	411.60	124.27	0.00	0.00	0.00	0.00	0.00	0.00	
EIRL-8	KSRB 14.6-2: Providing & laying heavy duty cobble stones 75mm thick interlock pavers,using cement & course sand for manufacture of blocks of approved size ,shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed (Avg thickness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Specification No. KBS (P.No 103 of I.No.14.6 in PW,P&IWTD SR 2018-19)	Sq-m	563.36	1352.32	0.00	0.00	255.10	3,44,981.00	255.10	344981.00	
EIRL-9	Crushed Coarse aggregate,(Supply of hand broken aggregates) 100mm and down size Item No 37, Code 0912, Page No II (Material Rate) PWD SR 2018-19	Cum	476.59	1541.34	0.00	0.00	476.58	7,34,566.00	476.58	734566.00	
EIRL-10	Construction of granular sub-base Grading-V as Sub-base and drainage layer by providing coarse graded crushed stone aggregates of granite/ trap/basalt material, mixing in a mechanical mix plant at OMC, Carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the 98 % proctor density, complete as per specifications. Clause 401 of MORTH V Revision.PWD SR 2018-19. Item No 20.5	Cum	1,350.96	2292.85	0.00	0.00	1349.32	30,93,797.00	1349.32	3093797.00	
EIRL-11	KSRRB M600-1. Construction of dry lean cement concrete mix CC1:5:10 with OPC cement @160Kgs, with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @ 0.58cum Sub- base over a prepared sub-grade with (coarse and fine aggregate conforming to IS: 383) aggregate cement ratio not to exceed 15:1. Aggregate gradation after blending to be as per Table 600-1, cement content not to be less than 160 kg/ cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. MORTH Specification No. 601 of MORTH V Revision and -do- with OPC at 420 kg/cum and coarse aggregate 0.64cum, fine aggregate 0.36cum using Concrete Batch mix Plant at 75 cum/hr capacity with fixed form paver. item no 22.1.2, Page No 174. PWD SR 2018-19	Cum	119.15	4465.09	0.00	0.00	119.14	5,31,978.00	119.14	531978.00	
EIRL-12	Providing barbed GI wire fencing of 12x12 gauge drawn into stone pillars or iron pillars including drawing in holes wherever necessary excluding the cost of pillars but including the cost of barbed wire and binding wire etc., complete. (P.No.266 I.No.37.5 of PW,P&IWTD SR of 2018-19)	Mtr	392.00	38.99	0.00	0.00	392.00	15,282.00	392.00	15282.00	

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					Qnty	Amount	Qnty	Amount	Qnty	Amount	
EIRL-13	Supply & Fixing of Pull Down chalenger Metal : All Tubular steel f2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size L W H): 2570 805 2685 mm. Weight: 85.4 kg. Safety Area:6287* 4858 mm Capacity_2 Persons.	Each	1.00	240000.00	1.00	2,40,000.00	0.00	0.00	1.00	240000.00	
EIRL-14	Supply & Fixing of Seated Chest Press : All Tubular steel of 2.5mm thickness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All meta are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns. All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in cordance to IS07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance: Maintain according to 8 EN16630 and the maintenance guide. Safety: All products must tested and certified to neet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size L*W*H): 1955 733 2058 mm. Weight: 86.6 kg. Safety Area : 5545* 4470 mm Capacity_2 Persons	Each	1.00	230000.00	1.00	2,30,000.00	0.00	0.00	1.00	230000.00	

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					Qnty	Amount	Qnty	Amount	Qnty	Amount	
EIRL-15	Supply & Fixing of Elliptical Cross Trainer: All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all Sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles. Bearings : Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN 16630 and the maintenance guide. Safety: All products must tested and certified to meet EN16630 safety standards with GS test mark. The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN 16630 safety certificates. SizeJ L W* H: 1267 * 582* 1764 mm. Weight: 43.5 kg. Safety Area: 4322 3632 mm Capacity_ I Persons	Each	1.00	140000.00	1.00	1,40,000.00	0.00	0.00	1.00	140000.00	
EIRL-16	Supply & Fixing of Rider Metal All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded . All welded joints are scalloped as necessary and welded to an approved MIG process . All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80 120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to 1S07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles .Bearings Maintenance-free ball bearings . Scope of delivery 1 completely pre - assembled equipment modules Maintenance: Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN 16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA ,TUV, CPSC, or SGS only The GS mark -EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN 16630 safety certificates. Size_L*W*H): 910 655 1270 mm. Weight: 29.5 kg. Safety Area 3310 3000 mm Capacity Persons	Each	1.00	90000.00	1.00	90,000.00	0.00	0.00	1.00	90000.00	

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					Qnty	Amount	Qnty	Amount	Qnty	Amount	
EIRL-17	Supply & Fixing of Bicycle. Metal : All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded . All welded joints are scalloped as necessary and welded to an approved MIG process . All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to IS07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles . Bearings Maintenance-free ball bearings . Scope of delivery: 1.completely pre -assembled equipment modules Maintenance Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN 16630 safety standards with GS test mark . The EN 16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA , TUV, CPSC, or SGS only The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN 16630 safety certificates. Size L*W*H): 1000*498*1290 mm .Weight: 51.5 kg. Safty Area 3400*3498 mm Capacity 1 Persons	Each	1.00	125000.00	1.00	1,25,000.00	0.00	0.00	1.00	125000.00	
EIRL-18	Supply & Fixing of Arm & Pedal Bike Metal : All Tubular steel of 2.5mm thichness are galvanized and zinc dipped . Joints are Robotic Welded . All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL n in accordance to IS 07227 to speed up corrosion for 3000 hrs. Rubber High quality grip rubber is used for the handles .Bearings: Maintenance-free ball bearings. Scope of delivery: 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN 16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA ,TUV, CPSC, or SGS only The GS mark -EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN 16630 safety certificates. Size.L*W*H: 830*500*1450 mm. Weight: 32 kg. Safety Area : 3830*2900 mm Capacity_I Persons	Each	1.00	170000.00	1.00	1,70,000.00	0.00	0.00	1.00	170000.00	

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					Qnty	Amount	Qnty	Amount	Qnty	Amount	
EIRL-19	Supply & Fixing of HD Sit Up Station Metal: All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joint are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process. All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel -Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL sokátion in accordance to IS 07227 to speed up corrosion for 3000 hrs. Rubber : High quality ip rubber is used for the handles . Bearings : Maintenance-free ball bearings . Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN 16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA , TUV, CPSC, or SGS only The GS mark -EN 16630 certifictes must be in the name of tendering party and not any 3rd party: All products must clearly display the GS mark as has been issued in the EN 16630 safety) certificates. Size _L*W*H): 1412*1366*650 mm. Weight : 42.6 kg. Safety Area.	Each	1.00	125000.00	1.00	1,25,000.00	0.00	0.00	1.00	125000.00	
EIRL-20	Supply & Fixing of HD mini Ski Metal: All Tubular steel of 2.5mm thichness are galvanized and zinc dipped. Joints are Robotic Welded. All welded joints are scalloped as necessary and welded to an approved MIG process . All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All metal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to 1S07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles .Bearings: Maintenance-free ball bearings Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide . Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA , TUV, CPSC, or SGS only. The GS mark-EN 16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been.	Each	1.00	160000.00	1.00	1,60,000.00	0.00	0.00	1.00	160000.00	

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					Qnty	Amount	Qnty	Amount	Qnty	Amount	
EIRL-21	Supply & Fixing of HD Squat Pushing Metal : All Tubular steel of 2.5mm thichness are galvanized and zinc dipped . Joints are Robotic Welded . All welded joints are scalloped as necessary and welded to an approved MIG process . All welds are dressed off removing all sharp edges & burrs. Zinc Primer paint is applied at all the welding paints prior to finishing. All mêtal parts are powder coated using AKZO Nobel - Great Wall Powder to the thickness of 80-120 microns . All metal parts are tested in our salt spray machine that uses a 5 % NaCL solution in accordance to 1S07227 to speed up corrosion for 3000 hrs. Rubber : High quality grip rubber is used for the handles Bearings Maintenance-free ball bearings . Scope of delivery : 1 completely pre-assembled equipment modules. Maintenance : Maintain according to EN16630 and the maintenance guide. Safety : All products must tested and certified to meet EN16630 safety standards with GS test mark . The EN16630 certificates must be issued by a reputed notified International Certfiying agency such as IPEMA, TUV, CPSC, or SGS only. The GS mark -EN16630 certifictes must be in the name of tendering party and not any 3rd party. All products must clearly display the GS mark as has been issued in the EN16630 safety certificates. Size_L *W * H): 2270 * 635* 1640 mm. Weight: 60.2 kg. Safety Area 5300 * 3685 mm Capacity_2 Persons.	Each	1.00	215000.00	1.00	2,15,000.00	0.00	0.00	1.00	215000.00	
EIRL-22	Providing children play standred spring duck Equipment : The system consists of and FRP coloured duck rocking on 10mm dia heavy duty coiled spring including fixing the play equipments in CC 1:2:4, curing etc., complete with all lead , lift, loading , unloading and any other incidental charges and as per the drawing and specifiactins and direction of he engineer in charge of the work.	Each	1.00	36000.00	1.00	36,000.00	0.00	0.00	1.00	36000.00	
EIRL-23	Providing Children play Standerd Duck Wheel Equipment : This is a Micro Revolver made up of an 4 feet diameter platform with 1.5mm thick Aluminium Chequered plate supported well two Nos of ball bearings. 2 nos LDPE ducks and 1 No of plastic sheet flat seats, all supported to vertical pillars of size 25mm NB pipes. All pipes are of ISI grades. All the pipes are painted with two coats of super set paint over a coat of protective Zinc chromae yellow Oxide including fixing the play equipments in CC 1:2:4 curing etc /. Complete with all lead , lift loading and unloading and any other incidental charges and as per the drawing and specification and direction of the Engineer in chrage of the work.	Each	1.00	68000.00	1.00	68,000.00	0.00	0.00	1.00	68000.00	
EIRL-24	Providing children play two seater standred swing equipment : This swing consist of 2 nos seat of powder coated of size 500mmx250mm x16SWG supported by M S chains of length 18mtrs each seat is suspended by 1 lines of chains. The chains are supported by circular housing with bearing from which the chain is suspended. The main beam is of 50mm MS 'A' class pipe. Size of MS chain 30mm X20mm X5mm thick, the lengh the main beam is 2.4mtrs and height of 2.00mtrs. 2 Nos of cast iron heads. Four footing are in 42 mm pipes. All pipes are ISI Grade, All the pipes are painted with two coats of SUpwe set of paint Over a coat of Protective Zinc chromate yellow oxide including fixing the play equipments in CC 1:2:4 curing Etc,, complete with all lead, lift loading and any other incidental charges and as per the drawing and specification and direction ofthe engineer in charge.	Each	1.00	56000.00	1.00	56,000.00	0.00	0.00	1.00	56000.00	

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					Qnty	Amount	Qnty	Amount	Qnty	Amount	
EIRL-25	Providing and fixing standard slide of approved quality and design as per the drawing and specification and direction of the Engineer in chrage of the work.	Each	1.00	56000.00	1.00	56,000.00	0.00	0.00	1.00	56000.00	
EIRL-26	Lead for disposal of debris shall be payable at carriage rates by mechanical means including loading and unloading. From10.00 to 13.30 kms (Pg132, 1-2)	Cum	162.05	110.56	162.00	17,911.00	0.00	0.00	162.00	17911.00	
						7,47,19,130.00		1,93,53,831.00		9,40,72,961.00	
	Amount In Words			Rupees One Crore Ninety Three Lakh Fifty Three Thousand Eight Hundred Thirty one Rupees Only							

Certificate:

1 Certified that the contractor has done the work satisfactorly
2 Certified that the debris has been removed from the site
3 Certified that the No dues from the contractor
4 Certified that the above item of the work were not claimed in any other bill

Contractor

Consultants

Assistant Engineer
Byatarayanapura Division
B.B.M.P

Assistant Executive Engineer
Byatarayanapura Division
B.B.M.P

Executive Engineer
Byatarayanapura Division
B.B.M.P